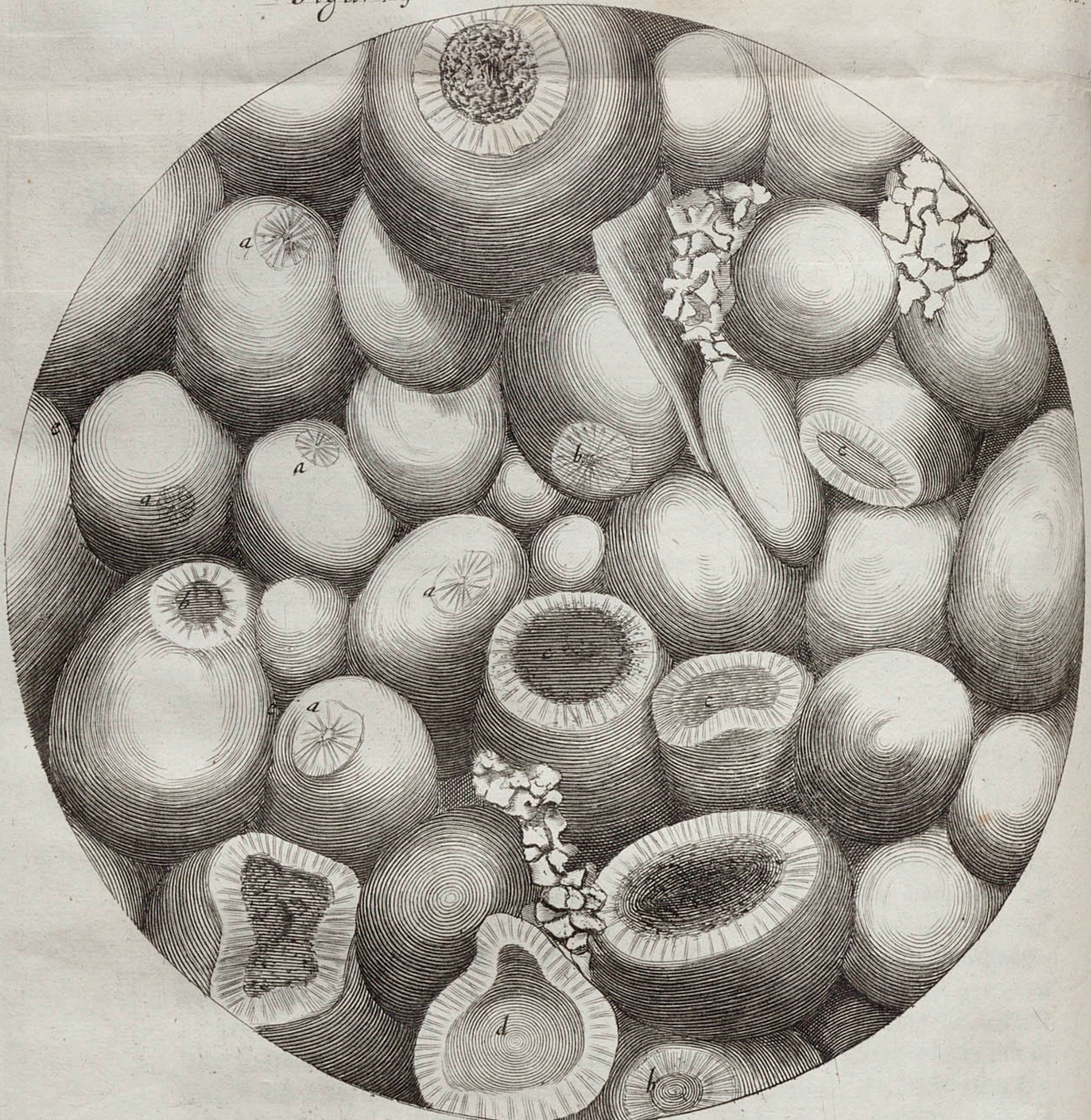
Figur: 1 Schem. IX



Figur: 2.

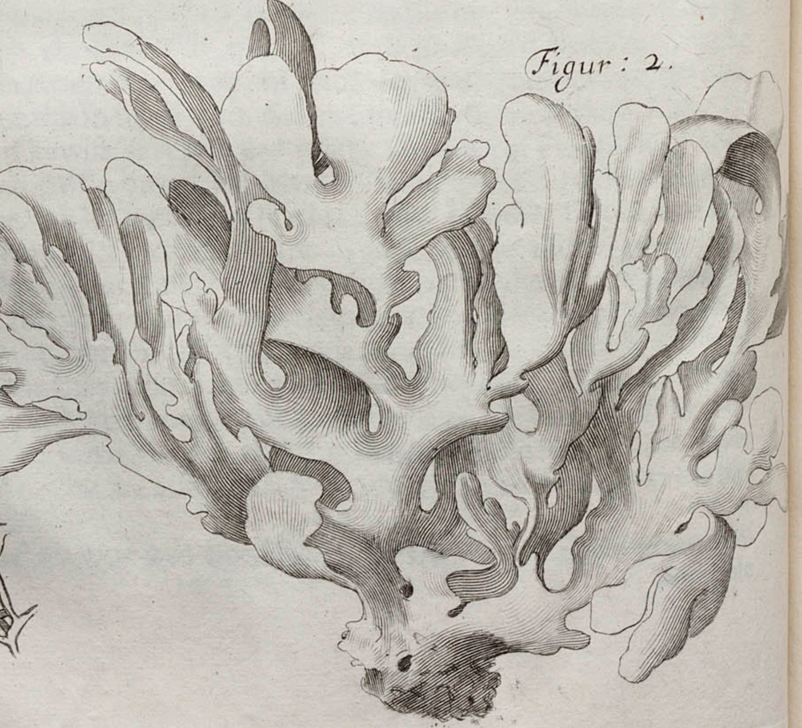
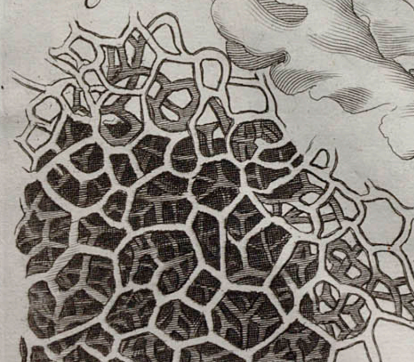


Fig: 3.



ſiderable thickneſs, I obſerv'd that both the upper and the under ſides of it were curiouſly quill'd, furrow'd, or grain'd, as it were, which when the Sun ſhone on the Plate, was exceeding eaſily to be perceiv'd to be much after the ſhape of the lines in the 6. *Figure* of the 8. *Scheme*, that is, they conſiſted of ſeveral ſtreight ends of parallel Plates, which were of divers lengths and angles to one another without any certain order.

The cauſe of all which regular Figures (and of hundreds of others, namely of *Salts*, *Minerals*, *Metals*, &c. which I could have here inſerted, would it not have been too long) ſeems to be deducible from the ſame Principles, which I have (in the 13. *Obſervation*) hinted only, having not yet had time to compleat a *Theory* of them. But indeed (which I there alſo hinted) I judge it the ſecond ſtep by which the *Pyramid* of natural knowledge (which is the knowledge of the form of bodies) is to be aſcended: And whoſoever will climb it, muſt be well furniſh'd with that which the Noble *Verulam* calls *Scalam Intellectus*; he muſt have ſcaling Ladders, otherwiſe the ſteps are ſo large and high, there will be no getting up them, and conſequently little hopes of attaining any higher ſtation, ſuch as to the knowledge of the moſt ſimple principle of Vegetation manifeſted in Mould and Muſhromes, which, as I elſewhere endeavoured to ſhew, ſeems to be the third ſtep; for it ſeems to me, that the Intellect of man is like his body, deſtitute of wings, and cannot move from a lower to a higher and more ſublime ſtation of knowledg, otherwiſe then ſtep by ſtep, nay even there where the way is prepar'd and already made paſſible; as in the *Elements of Geometry*, or the like, where it is fain to climb a whole *ſeries* of Propoſitions by degrees, before it attains the knowledge of one *Probleme*. But if the aſcent be high, difficult and above its reach, it muſt have recourſe to a *novum organum*, ſome new engine and contrivance, ſome new kind of *Algebra*, or *Analytick Art* before it can ſurmount it.

Obſerv. XV. *Of* Kettering-ſtone, *and of the pores of* Inanimate *bodies*.

THis Stone which is brought from *Kettering* in *Northampton-ſhire*, and digg'd out of a Quarry, as I am inform'd, has a grain altogether admirable, nor have I ever ſeen or heard of any other ſtone that has the like. It is made up of an innumerable company of ſmall bodies, not all of the ſame cize or ſhape, but for the moſt part, not much differing from a Globular form, nor exceed they one another in Diameter above three or four times; they appear to the eye, like the Cobb or Ovary of a *Herring*, or ſome ſmaller fiſhes, but for the moſt part, the particles ſeem ſomewhat leſs, and not ſo uniform; but their variation from a perfect globular ball, ſeems to be only by the preſſure of the *contiguous* bals which have a little depreſt and protruded thoſe toucht ſides inward, and forc'd the Schem. 9. Fig. 1.